

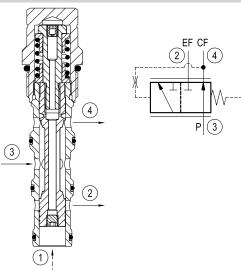
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RE 18321-87/04.13 1/2 Replaces: RE 18321-87/09.09

# Logic element, pressure compensator with static load sense

Common cavity, Size 12

VRLA-12A-S



#### Description

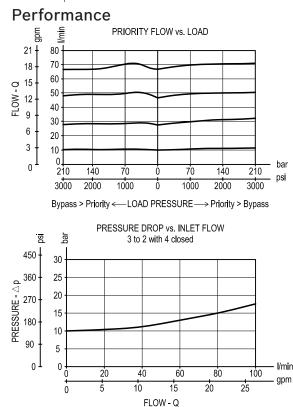
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The valve delivers priority flow, from 0 to max. available, on demand to port 4, while compensating for load changes downstream. In neutral, all input flow at 3 is given to the priority port 4. Pressure at 4 is applied to the spool against a spring force so that increasing pressure causes increasing by-pass of input flow to port 2. Load sense pressure at port 1, obtained between the downstream control and the load, assists the spring, and moves the spool back toward supplying priority flow. Comparison between priority outlet and LS pressure seeks a constant differential pressure over the control valve. As load and flow control change, the priority flow is increased or decreased to satisfy the demand establishing that differential.

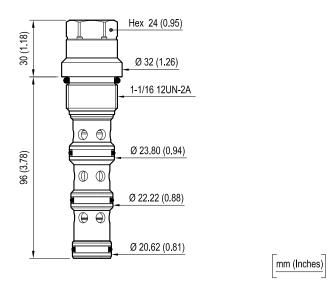
#### **Technical data**

Max. operating press	sure bar (psi)	350 (5000)			
Max. intel flow	l/min. (gpm)	100 (26)			
Max. priority flow	l/min. (gpm)	80 (21)			
Fluid temperature ra	inge °C (°F)	-30 to 100 (-22 to 212)			
Installation torque	Nm (ft-lbs)	81-95 (60-70)			
Weight	kg (lbs)	0.32 (0.71)			
Cavity		CA-12A-4N			
Cavity		see data sheet RE 18325-70			
Cool kit (*)	code	RG12A4010530100			
Seal kit (*)	material no.	R930001660			
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 10 to 500 mm <sup>2</sup> /s (cSt)			
Filtration		Nominal value max. 10µm (NAS 8 ISO 4406 19/17/14			
Installation		No restrictions			
Other Technical Da	ta	See data sheet RE 18350-50			
		*			

(\*) Only external seals for 10 valves



### Dimensions



## Ordering code

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							Series 0/A to L unchanged performa	ances and dimensions
Logic element, pressure compensator with static le	e oad sense					Versi	ion and options sta	ndard
						[		٦
							SPRINGS	_
_Common cavity, Size 1	2						Bias spring bar (psi)	
				:	= 05		5.5 (80) ±20%	
					= 10		10 (145) ±15%	
								_

Туре	Material number	Туре	Material number
048409005705000	R930008062		
048409005710000	R930001081		
Bosch Rexroth Oil Control S.p Via Leonardo da Vinci 5 P.O. Box no. 5 41015 Nonantola – Modena, It Tel. +39 059 887 611 Fax +39 059 547 848 cartridges@oilcontrol.com		information set forth i Oil Control S.p.a It m without its consent. The data specified abo statements concerning application can be der	well as the data, specifications and other in it, are the exclusive property of Bosch Rexroth hay not be reproduced or given to third parties ove only serve to describe the product. No g a certain condition or suitability for a certain rived from our information. The information given user from the obligation of own judgment and
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Subject to change.